

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L9	2	"5971158".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/04/27 09:55
L10	1	("5971158" "4751189").pn. and (solvent or organic)	USPAT	OR	ON	2007/04/27 10:00
L12	1	("5971158" "4751189").pn. and sample adj stream	USPAT	OR	ON	2007/04/27 10:26
L13	1	("5971158" "4751189").pn. and aqueous	USPAT	OR	ON	2007/04/27 10:29
L14	1	"20050202563".pn. and immiscible	US-PGPUB; USPAT	OR	ON	2007/04/27 10:36
L15	1	"6171865".pn.	US-PGPUB; USPAT	OR	ON	2007/04/27 10:40
L16	0	"5971158".pn. and conductivity	US-PGPUB; USPAT	OR	ON	2007/04/27 10:40
L17	0	"5971158".pn. and conductiv\$4	US-PGPUB; USPAT	OR	ON	2007/04/27 10:40
L18	1	"4751189".pn. and conduct\$	US-PGPUB; USPAT	OR	ON	2007/04/27 10:40
S1	1	"20050202563".pn.	US-PGPUB; USPAT	OR	ON	2007/04/25 14:25
S2	397	436/52.ccls.	USPAT	OR	ON	2007/04/25 12:52
S3	158	S2 and ion	USPAT	OR	ON	2007/04/25 12:54
S4	38	S2 and ion near exchange	USPAT	OR	ON	2007/04/25 12:54
S5	968	436/178.ccls.	USPAT	OR	ON	2007/04/25 12:54
S6	156	S5 and ion near exchange	USPAT	OR	ON	2007/04/25 12:54
S7	184	S4 or S6	USPAT	OR	ON	2007/04/25 12:56
S8	77	S7 and treat\$4 with (stream or sample or solution)	USPAT	OR	ON	2007/04/25 12:58
S9	4	S7 and matrix adj ion	USPAT	OR	ON	2007/04/25 12:58
S10	5	S7 and (matrix or ion) with capture	USPAT	OR	ON	2007/04/25 13:17
S11	2	("5971158" "6297061").pn.	USPAT	OR	ON	2007/04/25 13:25

## EAST Search History

S12	53	("3449938"   "4147621"   "4214981"   "4250026"   "4726929"   "4737268"   "4830756"   "4894146"   "4894172"   "5039426"   "5141651"   "5156039"   "5193688"   "5240618"   "5250263"   "5288463"   "5304487"   "5465849"   "5480614"   "5498392"   "5585069"   "5599432"   "5635358"   "5707799").PN. OR ("5971158").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/25 13:26
S13	53	("4214981"   "4250026"   "4608869"   "4675300"   "4737268"   "4849340"   "4894146"   "4954715"   "4962037"   "5039426"   "5121988"   "5141651"   "5144224"   "5156039"   "5193688"   "5278048"   "5281531"   "5288463"   "5326692"   "5366608"   "5389524"   "5427946"   "5439578"   "5444527"   "5480614"   "5552885"   "5560889"   "5585069"   "5599432"   "5602039"   "5602349"   "5635358"   "5643796"   "5674743"   "5707799"   "5716852"   "5726404"   "5726751"   "5747349"   "5748827"   "5750063"   "5790727"   "5932100"   "5942443"   "5948684"   "5971158"   "5972710").PN. OR ("6297061"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/25 13:33
S15	210	weigl.in.	USPAT	OR	ON	2007/04/25 13:36
S16	23	(S11 S12 S13) and (detector or spectrometer) and (chromatograph\$4)	USPAT	OR	ON	2007/04/25 13:37

## EAST Search History

S17	70	("20010051334"   "20020172621"   "4233029"   "4271119"   "4302313"   "4426451"   "4439526"   "5429734"   "5529465"   "5571410"   "5730187"   "5757482"   "5779868"   "5800690"   "5842787"   "5858195"   "5858804"   "5880071"   "5922591"   "5957579"   "5958202"   "5971158"   "6001229"   "6001231"   "6010607"   "6010608"   "6033546"   "6042709"   "6057149"   "6062261"   "6068751"   "6080295"   "6086825"   "6090251"   "6106685"   "6110332"   "6110343"   "6120666"   "6130098"   "6132685"   "6136212"   "6143152"   "6150119"   "6165417"   "6167910"   "6186660"   "6192768"   "6193471"   "6197595"   "6213151"   "6221226"   "6221677"   "6231737"   "6251343"   "6271038"   "6274089"   "6284113"   "6290909"   "6296020"   "6306590"   "6342142"   "6376181"   "6399396"   "6409900"   "6416642"   "6420143"   "6494230"   "6567023"   "6569674"   "6648015").PN. OR ("7179423").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/25 14:02
S18	1	"20050202563".pn. and matrix with capture	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/25 14:38
S19	0	(S11 S12 S13) and (liquid with (ion and exchanger) or ion with (exchang\$3 and material))	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/25 14:15
S20	11	(S11 S12 S13) and (liquid with (exchanger) or ion with (exchang\$3))	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/25 14:22
S21	0	(S11 S12 S13 S17) and (ion with (amine or ammonium adj hydroxide or alkylsulfonic adj acid))	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/25 14:36

## EAST Search History

S22	3	(S11 S12 S13 S17) and (ion same (amine or ammonium adj hydroxide or alkylsulfonic adj acid))	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/25 14:23
S23	141	250/281.ccls. and ion with exchange	US-PGPUB; USPAT	OR	ON	2007/04/25 14:26
S24	4	250/299.ccls. and ion with exchange	US-PGPUB; USPAT	OR	ON	2007/04/25 14:26
S25	228	250/299.ccls.	US-PGPUB; USPAT	OR	ON	2007/04/25 14:33
S26	1	"6221677".pn. and ion with (exchang\$3 or membrane)	US-PGPUB; USPAT	OR	ON	2007/04/25 14:34
S27	240	diffusion\$ with sensor and ion near6 exchang\$4	US-PGPUB; USPAT	OR	ON	2007/04/25 14:34
S28	148	diffusion\$ with sensor and ion near6 exchang\$4	USPAT	OR	ON	2007/04/25 14:34
S30	3	S28 and (ion with (amine or ammonium adj hydroxide or alkylsulfonic adj acid))	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/25 14:36
S31	0	"20050202563".pn. and diffusion with (barrier or membrane)	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/25 14:42
S32	207	(S12 S13 S17 S23 S25) and ion with (extract\$4 or captur\$4 or exchang\$4)	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/25 14:43
S33	9	S32 and side\$1by\$1side	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/25 14:45
S34	4	("5932100" "5726404" "5716852" "5948684").pn.	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/25 14:46
S35	20	(US-20050202563-\$).did. or (US-6297061-\$ or US-5971158-\$ or US-4737268-\$ or US-4675300-\$ or US-5480614-\$ or US-5599432-\$ or US-5707799-\$ or US-5948684-\$ or US-6221677-\$ or US-7060446-\$ or US-7179423-\$ or US-5039426-\$ or US-5193688-\$ or US-4271119-\$ or US-7144735-\$ or US-5278048-\$ or US-5434084-\$ or US-6830729-\$ or US-5716852-\$).did.	US-PGPUB; USPAT	OR	ON	2007/04/25 14:48
S36	0	S35 and ion with rsin	US-PGPUB; USPAT	OR	ON	2007/04/25 14:48
S37	4	S35 and ion with resin	US-PGPUB; USPAT	OR	ON	2007/04/25 14:49

## EAST Search History

S38	13	(S12 S13 S17) and ion with resin	US-PGPUB; USPAT	OR	ON	2007/04/25 14:51
S39	13092	ion adj exchanger	US-PGPUB; USPAT	OR	ON	2007/04/25 14:51
S40	41	ion adj exchanger with channel	US-PGPUB; USPAT	OR	ON	2007/04/25 14:53
S41	3	ion adj exchanger with carrier adj liquid	US-PGPUB; USPAT	OR	ON	2007/04/25 14:54
S42	88	ion adj exchanger with carrier with (liquid or stream)	US-PGPUB; USPAT	OR	ON	2007/04/25 15:00
S43	5398	carrier with ((ion adj exchang\$4) or (ion adj extract\$4) or (ion near6 captur\$4))	US-PGPUB; USPAT	OR	ON	2007/04/25 15:02
S44	38	carrier adj (stream or liquid) with ((ion adj exchang\$4) or (ion adj extract\$4) or (ion near6 captur\$4))	US-PGPUB; USPAT	OR	ON	2007/04/25 15:02
S45	26	(US-20050202563-\$).did. or (US-6297061-\$ or US-5971158-\$ or US-5434084-\$ or US-7179423-\$ or US-7060446-\$ or US-6221677-\$ or US-6830729-\$ or US-5599432-\$ or US-5480614-\$ or US-5948684-\$ or US-5707799-\$ or US-4675300-\$ or US-5618438-\$ or US-5584981-\$ or US-4510058-\$ or US-5922591-\$ or US-4271119-\$ or US-5716852-\$ or US-5278048-\$ or US-5039426-\$ or US-4737268-\$ or US-5193688-\$ or US-7144735-\$ or US-6463312-\$ or US-5376252-\$).did.	US-PGPUB; USPAT	OR	ON	2007/04/26 09:10
S46	7	S45 and "204".clas.	US-PGPUB; USPAT	OR	ON	2007/04/26 09:21
S47	79	204/536.ccls.	USPAT	OR	ON	2007/04/26 10:42
S48	0	"5584981".pn. and detector	USPAT	OR	ON	2007/04/26 10:43
S49	1	S45 and toaoh	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/04/26 10:49
S50	0	S45 and (toahoh hdsa odsa)	USPAT	OR	ON	2007/04/26 10:50
S51	2	S45 and (amberlite)	USPAT	OR	ON	2007/04/26 10:49

## EAST Search History

S52	33	("2815320"   "3149061"   "3291713"   "3296111"   "3485737"   "3645884"   "3686089"   "3869376"   "4832803"   "B14632745").PN. OR ("5584981").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/26 10:50
S53	0	S52 and (toahoh hdsa odsa)	USPAT	OR	ON	2007/04/26 11:12
S54	0	"5584981".pn. and carrier	USPAT	OR	ON	2007/04/26 10:55
S55	0	carrier adj (solution or sample or stream) with (Amberlite or toaho or dbsa or odsa)	USPAT	OR	ON	2007/04/26 10:56
S56	0	carrier adj (solution or sample or stream) same (Amberlite or toaho or dbsa or odsa)	USPAT	OR	ON	2007/04/26 10:56
S57	7	ion adj exchange with (Amberlite or toaho or dbsa or odsa) and flow adj channel	USPAT	OR	ON	2007/04/26 10:57
S58	3	carrier adj (stream or sample or solution) and sample adj (solution or stream) and ion adj (captur\$4 or exchang\$4) same (amberlite or toahoh or dbsa or hdsa or odsa)	USPAT	OR	ON	2007/04/26 10:59
S59	12	S45 and carrier	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/04/26 11:07
S60	1	"5584981".pn. and amberlite	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/04/26 11:07
S61	8	S45 and carrier and sample adj (solution or stream)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/04/26 11:08
S62	8940	(toahoh hdsa odsa amberlite)	USPAT	OR	ON	2007/04/26 11:12
S63	403	(toahoh hdsa odsa amberlite) and ("422" or "436" or "250" or "204").clas.	USPAT	OR	ON	2007/04/26 11:12
S64	19	(toahoh hdsa odsa amberlite) and ("422" or "436" or "250" or "204").clas. and (flow adj cell or flow adj channel)	USPAT	OR	ON	2007/04/26 11:31
S65	1	"20050202563".pn. and matrix adj1 ion adj1 species	US-PGPUB; USPAT	OR	ON	2007/04/26 11:43

## EAST Search History

S66	6731	(carrier or treatment) near5 (stream or solution or sample) with (amberlite or toaoh or dbsa or odsa or hydroxide or amine)	US-PGPUB; USPAT	OR	ON	2007/04/26 11:45
S67	246	(carrier or treatment) near5 (stream or solution or sample) with (amberlite or toaoh or dbsa or odsa or hydroxide or amine) same ion adj (captur\$4 or exchang\$4)	US-PGPUB; USPAT	OR	ON	2007/04/26 11:45
S68	200	(carrier or treatment) near5 (stream or solution or sample) with (amberlite or toaoh or dbsa or odsa or hydroxide or amine) same ion adj (captur\$4 or exchang\$4)	USPAT	OR	ON	2007/04/26 11:53
S69	1	"20050202563".pn. and "matrix ion species capture material"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/04/26 11:59
S70	312	liquid adj1 ion adj1 exchanger	US-PGPUB; USPAT	OR	ON	2007/04/26 12:25
S71	267	liquid adj1 ion adj1 exchanger	USPAT	OR	ON	2007/04/26 12:01
S72	1	liquid adj1 ion adj1 exchanger and (carrier adj (sample or solution or stream))	USPAT	OR	ON	2007/04/26 12:02
S73	8	liquid adj1 ion adj1 exchanger and (elut\$4 adj (sample or solution or stream))	USPAT	OR	ON	2007/04/26 12:03
S74	1	"5584981".pn. and elut\$4 near (stream or sample or solution)	USPAT	OR	ON	2007/04/26 12:10
S75	1	(liquid-liquid or liquid\$liquid) adj extraction and (flow adj cell or flow adj channel) and carrier adj (stream or sample or solution)	USPAT	OR	ON	2007/04/26 12:15
S76	108	(liquid-liquid or liquid\$liquid) adj extraction and (flow adj cell or flow adj channel)	USPAT	OR	ON	2007/04/26 12:23
S77	35	(liquid-liquid or liquid\$liquid) adj extraction and (aqueous adj solution) with (immiscible adj solvent)	USPAT	OR	ON	2007/04/26 12:19
S78	20	(liquid-liquid or liquid\$liquid) adj extraction and (aqueous adj solution) with (immiscible adj solvent) and ion near exchang\$3	USPAT	OR	ON	2007/04/26 12:19



## EAST Search History

S79	20	(liquid-liquid or liquid\$liquid) adj extraction and (aqueous adj solution) with (immiscible adj solvent) and (ion near exchange\$3 or anion near exchange\$3)	USPAT	OR	ON	2007/04/26 12:22
S80	20	(liquid-liquid or liquid\$liquid) adj extraction and (flow adj cell or flow adj channel) and analyte	USPAT	OR	ON	2007/04/26 12:23
S81	109	liquid adj1 ion adj1 exchanger same (Amberlite or TOAOH DBSA ODSA or ammonium adj hydroxide or amine)	US-PGPUB; USPAT	OR	ON	2007/04/26 12:27
S82	100	liquid adj1 ion adj1 exchanger same (Amberlite or TOAOH DBSA ODSA or ammonium adj hydroxide or amine)	USPAT	OR	ON	2007/04/26 12:30
S83	2	liquid adj1 ion adj1 exchanger same (Amberlite or TOAOH DBSA ODSA or ammonium adj hydroxide or amine) and (carrier or elut\$4 or eluent) adj (stream or solution)	USPAT	OR	ON	2007/04/26 12:31
S84	7	liquid adj1 ion adj1 exchanger and (carrier or treatment) adj (stream or solution)	USPAT	OR	ON	2007/04/26 12:32
S85	35	liquid adj1 ion adj1 exchanger and channel	USPAT	OR	ON	2007/04/26 12:41
S86	1	"5971158".pn. and outlet	USPAT	OR	ON	2007/04/26 12:49
S87	1	"5971158".pn. and sequestering adj material	USPAT	OR	ON	2007/04/26 12:51
S88	1	"5971158".pn. and ion	USPAT	OR	ON	2007/04/26 13:48
S89	0	"5971158".pn. and ion with sequestering	USPAT	OR	ON	2007/04/26 12:51
S90	1	"5971158".pn. and detector	USPAT	OR	ON	2007/04/26 13:48
S91	1	"5971158".pn. and detect\$3	USPAT	OR	ON	2007/04/26 14:01
S92	1	"5971158".pn. and chromatograph\$4	USPAT	OR	ON	2007/04/26 14:20
S93	1	"5971158".pn. and aqueous	USPAT	OR	ON	2007/04/26 14:20
S94	1	"20050202563".pn. and suppress\$4 with sample adj stream	US-PGPUB; USPAT	OR	ON	2007/04/26 17:03
S95	3146	((liquid adj1 ion adj1 exchanger) or (liquid-liquid adj extract\$4))	USPAT	OR	ON	2007/04/26 14:32
S96	77	((liquid adj1 ion adj1 exchanger) or (liquid-liquid adj extract\$4)) and (flow near channel)	USPAT	OR	ON	2007/04/26 14:42



## EAST Search History

S97	53	("3449938"   "4147621"   "4214981"   "4250026"   "4726929"   "4737268"   "4830756"   "4894146"   "4894172"   "5039426"   "5141651"   "5156039"   "5193688"   "5240618"   "5250263"   "5288463"   "5304487"   "5465849"   "5480614"   "5498392"   "5585069"   "5599432"   "5635358"   "5707799").PN. OR ("5971158").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/26 14:39
S98	2	(liquid adj1 ion adj1 exchanger) and (flow near channel)	USPAT	OR	ON	2007/04/26 14:44
S99	1058	(ion adj1 exchang\$4) and (flow near channel)	USPAT	OR	ON	2007/04/26 14:44
S10 0	722	(ion adj1 exchang\$4) and (flow near channel) and (carrier or treatment or extract\$4)	USPAT	OR	ON	2007/04/26 14:45
S10 1	122	(ion adj1 exchang\$4) and (flow near channel) and (carrier or treatment or extract\$4) and analyte	USPAT	OR	ON	2007/04/26 14:45
S10 2	16	("4500431"   "4507390").PN. OR ("4751189").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/26 15:28
S10 3	1	"4751189".pn. and sample	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/26 15:51
S10 4	0	"20050202563".pn. and mannitol	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/26 15:51
S10 5	1	"20050202563".pn. and (sugar or glucose)	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/26 16:17
S10 6	1	"5971158".pn. and extraction adj stream	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/26 16:41
S10 7	0	"5971158".pn. and salt	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/26 16:41
S10 8	1	"20050202563".pn. and liquid adj interface	US-PGPUB; USPAT	OR	ON	2007/04/26 17:05

## EAST Search History

S10 9	20	("3897213"   "3920397"   "3925019"   "3926559"   "4265634"   "4455233"   "4474664"   "4751004"   "4751189"   "4794088"   "4861555"   "4999098"   "5045204"   "5068090"   "5352360"   "5597734"   "5759405"   "5773615"   "6328885"   "6436719").PN. OR ("6752927").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/26 17:07
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